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**Maintenance**

**BORESIGHTING AIRCRAFT WEAPONS SYSTEMS AC-130H/U**

**COMPLIANCE WITH THIS PUBLICATION IS MANDATORY**

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This operating instruction (OI) establishes procedures for boresighting fixed and trainable weapons on AC-130H/U aircraft. This OI applies to all maintenance organizations assigned to the group involved in boresight operations.

**1. RESPONSIBILITIES.** All supervisors involved in boresight operations will ensure compliance with applicable technical data and safety rules.

1.1. The 16th Aircraft Maintenance Unit (16 AMU) production supervisor will ensure the aircraft is positioned on an approved boresight location with a crew chief standing by for the boresight, and guidance and control personnel are available to accomplish boresight.

1.2. The 4th Aircraft Maintenance Unit (4 AMU) production supervisor will ensure that the aircraft is positioned on an approved boresight location with a crew chief standing by for the boresight.

1.3. The 16th Equipment Maintenance Squadron (16 EMS) Weapons Element will ensure that weapons technicians are available when 25mm, 40mm and 105mm are to be boresighted on AC-130U aircraft.

**2. PERSONNEL REQUIREMENTS:**

2.1. AC-130H gunships

2.1.1. One crew chief.

2.1.2. Two guidance and control personnel for trainable weapons.

2.1.3. One sensor technician for assisting in trainable boresight.

2.2. AC-130U gunships

2.2.1. One crew chief.

2.2.2. Two weapons personnel.

**3. EQUIPMENT REQUIREMENTS:**

3.1. Boresight kit and tools from appropriate workcenter.

3.2. One aircraft ground power unit and air conditioner (U-models).

3.3. One 10-gallon CB fire extinguisher or equivalent.

3.4. One main landing gear axle jack (for H-model only).

**4. BORESIGHT LOCATIONS:**

- 4.1. For AC-130H, L1 or M1, headed east so the boresight reference line of the guns will be parallel with the red and white ILS building on the north end of the runway.
- 4.2. For AC-130U, AA1, AB1 or B1, headed west so the boresight reference line of the guns will be parallel with the water tower over the Main Base Exchange on the south end of the runway.

**5. BORESIGHT TARGET SELECTION:**

- 5.1. The senior guidance and control technician is responsible for target identification and selection for AC-130H aircraft. Crew chiefs will axle jack aircraft (if required) before any boresight of the trainable guns is attempted.

**6. WEATHER LIMITATIONS:**

- 6.1. At least 7,000 feet of ground visibility is needed to boresight all guns. Wind conditions are also critical, final determination of acceptable weather conditions will be made by the 4/16 AMU production supervisors.

**7. SAFETY PRECAUTIONS:**

- 7.1. Ensure gun to be boresighted is clear of all ammunition.
- 7.2. Ensure all guns are clear and safe prior to starting the boresight of the aircraft.
- 7.3. Do not apply power to the aircraft until all gun switches and circuit breakers have been checked for proper positioning.
- 7.4. Stand clear of the gun barrels during checks.

**8. EMERGENCY PROCEDURES:**

- 8.1. **IN CASE OF FIRE OR PERSONNEL INJURY, NOTIFY THE MAINTENANCE CONTROL CENTER AS SOON AS POSSIBLE. EVACUATE NONESSENTIAL personnel TO A DISTANCE OF AT LEAST 500 FEET. TRY TO PUT OUT THE FIRE IF IT IS IN AN EARLY STAGE.**

CHARLES WILLIAMS, Colonel, USAF  
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